

**AMENDMENTS**

**IN THE SPECIFICATION:**

*Page 1, line 1: Please delete the word on this line as follows:*

Description

Page 1, line 4: Please add: --Field of the invention--.

*Page 1, lines 9-16: Please delete the paragraph as follows:*

**Object of the invention:**

~~The invention is based on an object of specifying an optical transmission module which can be produced at particularly low cost. At the same time the transmission module should be externally programmable. However, in this case, one aim is to ensure that the number of connecting pins for operation of the optical transmission module is as small as possible.~~

*Page 1, lines 19-33: Please replace the paragraph with the following:*

~~The stated object is achieved, a~~According to one aspect of the invention, by an optical transmission module is disclosed having a transmission element, and a driver which drives the transmission element. The driver uses a transmission signal that is applied to its driver input to produce a drive or modulation signal for the transmission element. The transmission module according to the invention furthermore has a control device which drives the driver, and which furthermore, is programmable. A multiplexing device is connected between a signal input of the optical transmission module, the driver input of the driver and the control device, and can be used to switch an input signal, which is applied to the signal input of the transmission module, to the control device or to the driver.

*Page 4, lines 3-18: Please replace the paragraph with the following:*

According to a further ~~preferred~~ embodiment of the optical transmission module, provision is made ~~for the~~ for the impedance of the line terminating impedance to be controllable. This impedance control can be achieved, for example, via an impedance control input of the line terminating impedance, to which the monitoring module is connected in order to drive it. The monitoring module preferably drives the line terminating impedance such that it has an impedance which is suitable for transmission signals when a transmission signal is applied to the signal input of the transmission module. In a corresponding manner, the monitoring module sets the line terminating impedance to an impedance which is suitable for a programming signal when a programming signal is applied to the signal input of the transmission module.

*Page 4, line 27 – Page 5, line 10: Please replace the paragraph with the following paragraph:*

According to a further ~~preferred~~ embodiment of the transmission module, according to the invention, provision is made for the multiplexing device to have a pattern generator. The multiplexing device is in this case designed such that it connects the pattern generator to the driver when the signal input of the transmission module is connected to the control device. This refinement of the transmission module ensures that it is possible to match the transmission element and/or the driver: specifically, during a matching process such as this, it is necessary for the transmission element to be actively operated, and to produce optical output signals which can be measured and evaluated; at the same time, however, it must be possible to externally program the control device for the transmission module. In order to ensure this, the signal input of the transmission module is connected to the control device, so that programming signals can pass to the control device; at the same time, the transmission element is driven by the pattern generator, so that active operation of the transmission element is possible at the same time.

*Page 6, line 36 – page 7, line 9: Please replace the paragraph with the following:*

According to another ~~preferred~~-embodiment of the optical transmission module, provision is made for the multiplexing device to have a code detector, by means of which it evaluates the code sequences in the received signal which is applied to the signal input of the transmission module. The multiplexing device uses the code sequences which are found to determine whether this is a transmission signal or a programming signal. For example, the multiplexing device regards the input signal as a programming signal when its code sequences are not the same as typical or previously defined code sequences for transmission signals.

*Page 6, line: 10: Please insert the following:*

--Brief description of the drawings:--

*Page 6, line 33: Please insert the following:*

--Detailed description of the invention:--

**IN THE ABSTRACT:**

*Please replace the abstract of the invention with the following Abstract on the next page:*